FIGURE 1
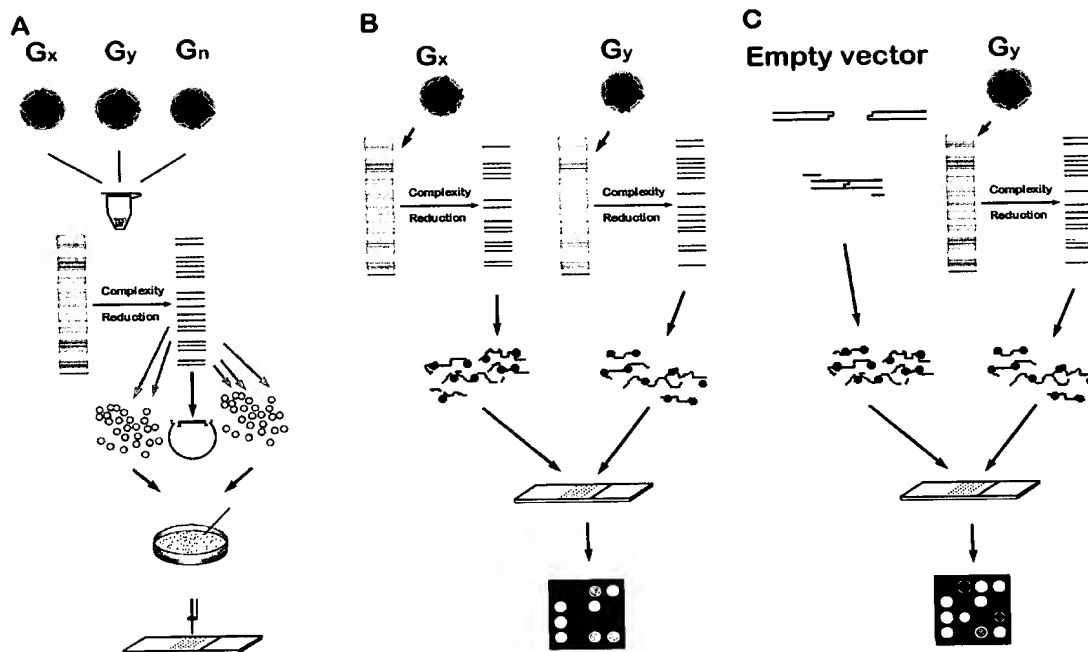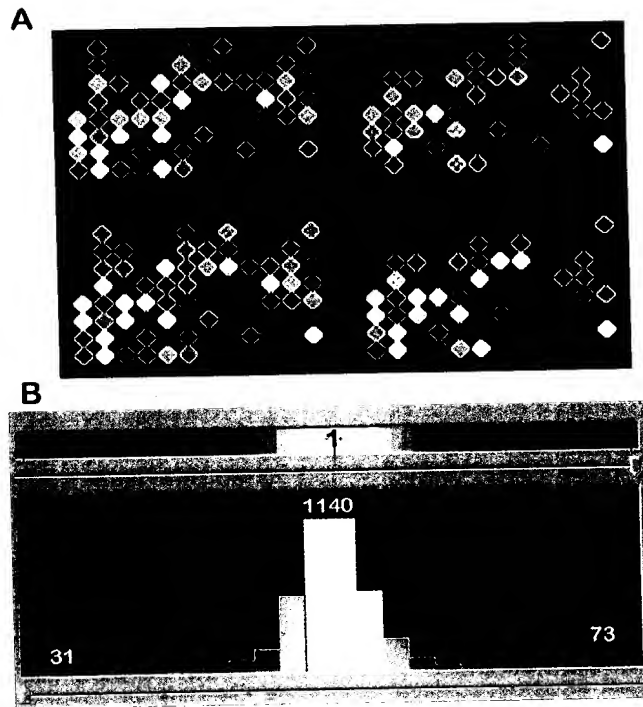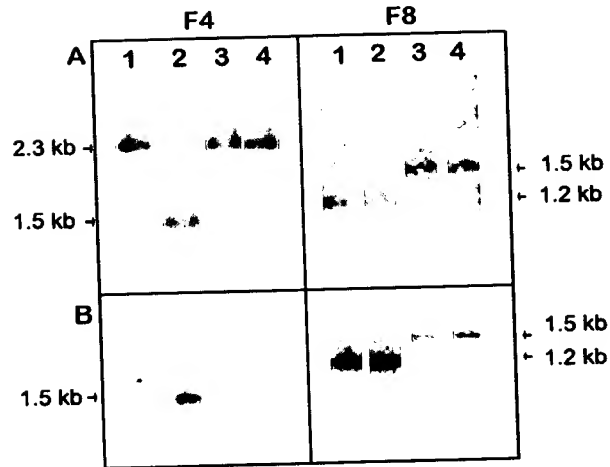
FIGURE 2

FIGURE 3

Figure 4

A

B

IR20   Green Cy3
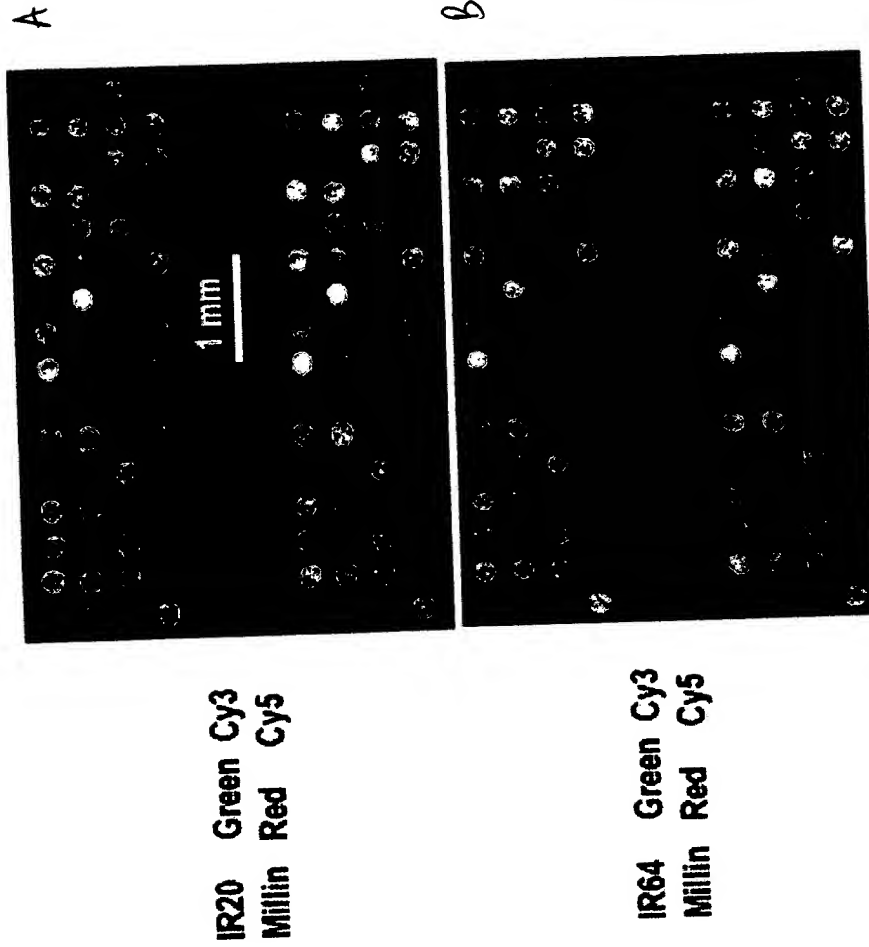Millin Red   Cy5

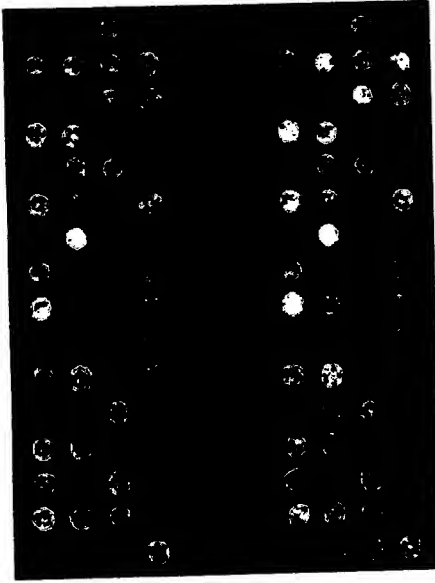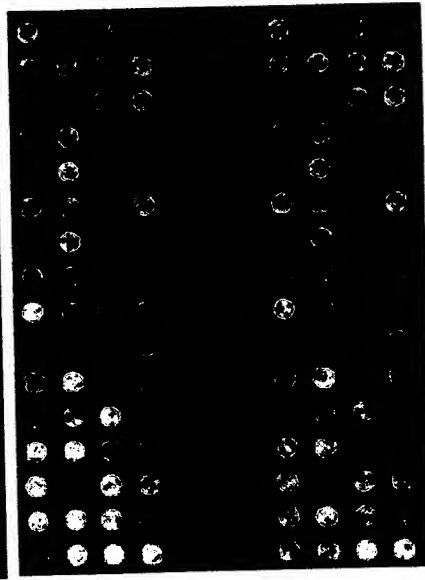IR64   Green Cy3
Millin Red   Cy5

FIGURE 5

A

B

1 mm

IR20　Green　Cy3
Millin　Red　Cy5
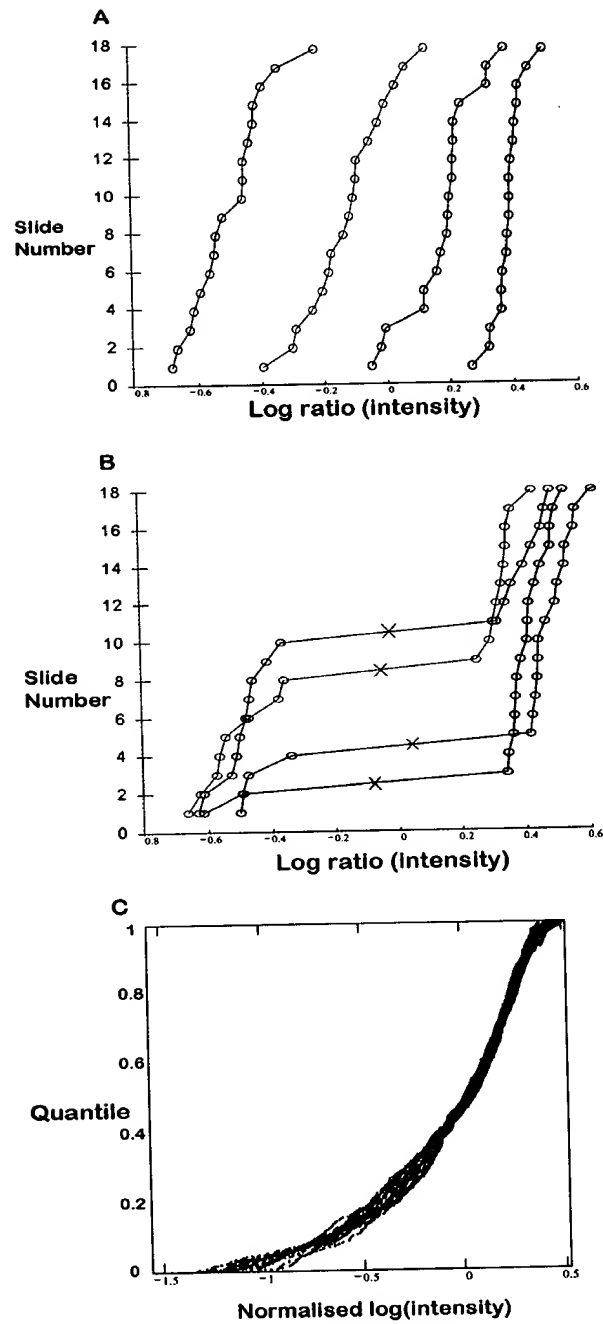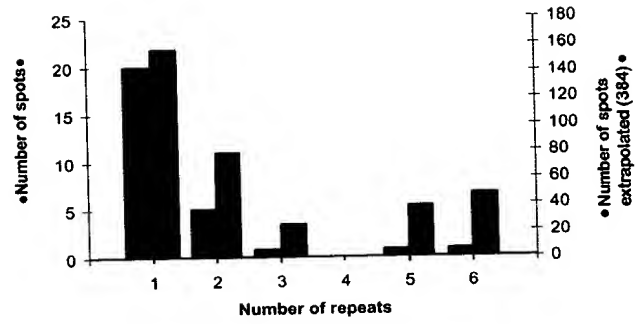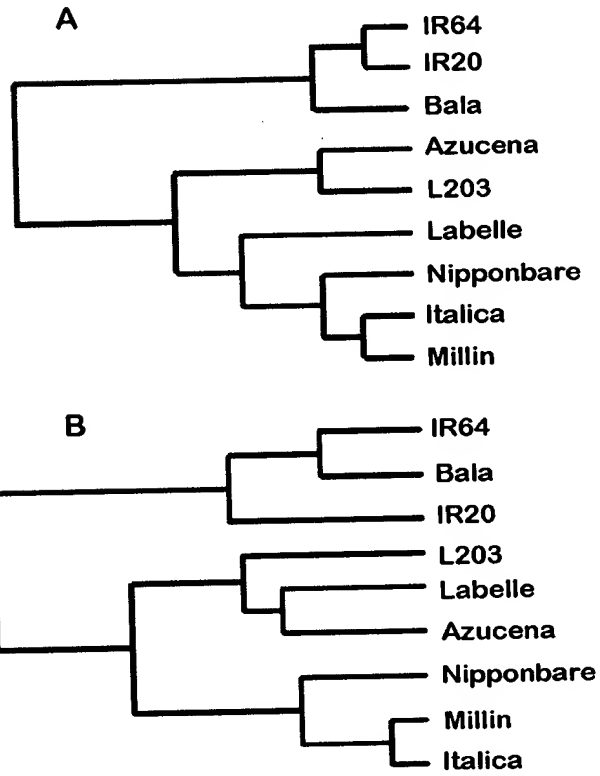
IR20　Green　Cy3
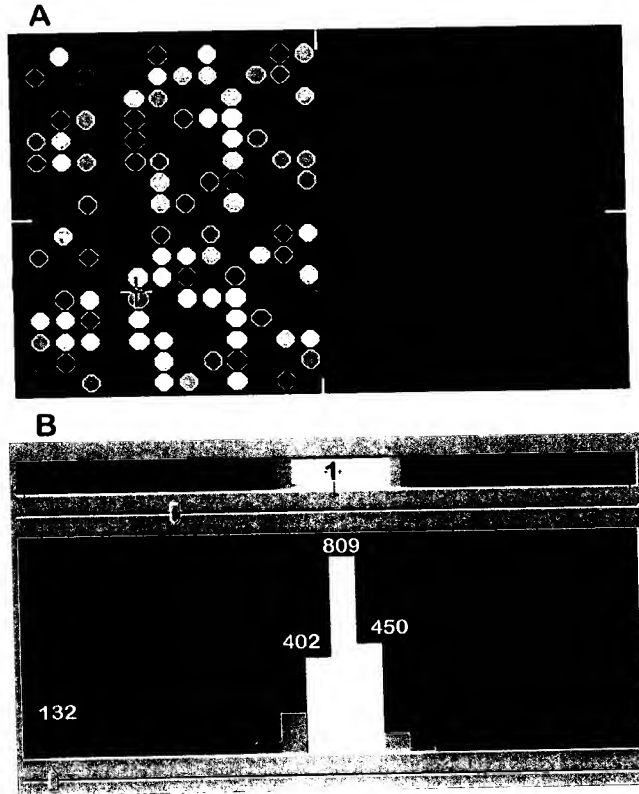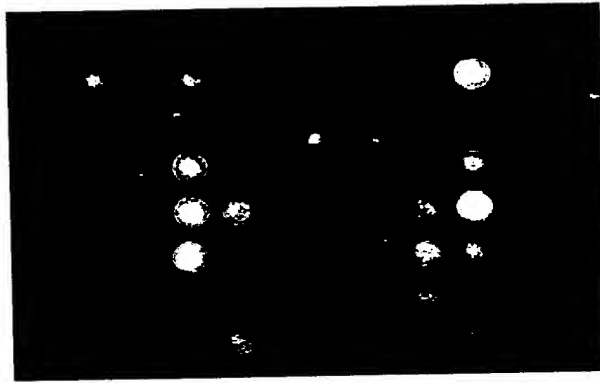Vector　Red　Cy5

FIGURE 6

FIGURE 7

FIGURE 8

FIGURE 9

FIGURE 10

Barley DArT polymorphism analysis between Steptoe and Morex cultivars

Morex Diversity Panel was labelled with Cy3 and Steptoe Diversity Panel with Cy5 dyes

Figure 11

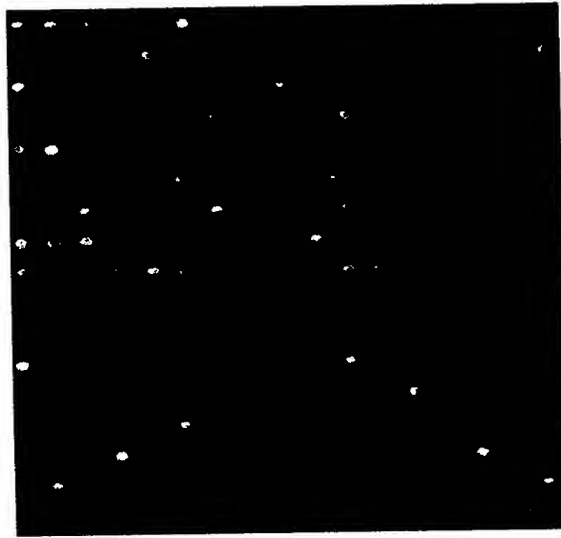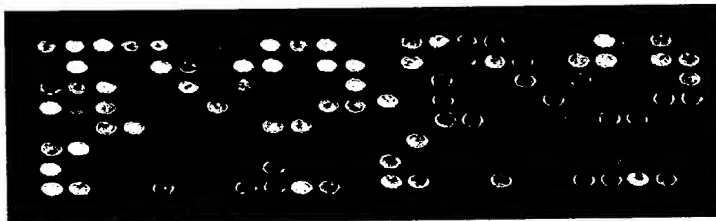## Mouse DArTs using cDNA-based Diversity Array

Figure 12

Methylation pattern differences among rice tissues typed using DArTs

Red: callus
Green: seedling root
Yellow: callus + root

Red: callus
Green: immature embryo
Yellow: callus + embryo

Figure 13

Amplicon Southern analysis

Rice Tissue	Log Intensity(Diversity Panel/TOPO)
1. Seedling leaves	0.51
2. Seedling root	0.64
3. Mature pollen and anther	0.58
4. immature pollen and anther	0.34
5. Fertilized ovary and stigma	-0.01
6. Unfertilized ovary and stigma	0.39
7. Mature embryo	0.37
8. Immature embryo	0.47
9. Immature endosperm	0.42
10. Flag leaves	0.51
11. Callus	0.60
12. DNA Mixture	0.63

Figure 14